BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Project Division Yelahanka

Measurement Sheet

1st & Part Bill

Name of work: Improvements to Roads and Drains at Kogilu Layout at Ward No.05

Name of Agency: M/S. KRIDL

SSR 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specificatioMORTH Chapte(P-142, It,-19.2)

CHAINAGE Land Mark	NO	L (m)	B1 (m)	B2 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement recorded on:		03/05/18 , 04/05/18						
KOGILU								
Bande Road From Flag Pole to Kogilu Main road								
0.00	1	0.00	9.20	9.00	9.10	0.20	0.00	
30.00	1	30.00	9.00	7.60	8.30	0.20	49.80	
60.00	1	30.00	7.60	6.30	6.95	0.20	41.70	
90.00	1	30.00	6.30	6.10	6.20	0.20	37.20	
94.00	1	4.00	6.10	6.20	6.15	0.20	4.92	
94.00	1	0.00	6.20	6.30	6.25	0.20	0.00	
124.00	1	30.00	6.30	5.00	5.65	0.20	33.90	
154.00	1	30.00	5.00	4.80	4.90	0.20	29.40	
184.00	1	30.00	4.80	4.00	4.40	0.20	26.40	
214.00	1	30.00	4.00	4.10	4.05	0.20	24.30	
244.00	1	30.00	4.10	4.60	4.35	0.20	26.10	
274.00	1	30.00	4.60	4.00	4.30	0.20	25.80	
304.00	1	30.00	4.00	4.70	4.35	0.20	26.10	
334.00	1	30.00	4.70	4.80	4.75	0.20	28.50	
364.00	1	30.00	4.80	5.70	5.25	0.20	31.50	
394.00	1	30.00	5.70	5.40	5.55	0.20	33.30	
424.00	1	30.00	5.40	4.90	5.15	0.20	30.90	
454.00	1	30.00	4.90	4.10	4.50	0.20	27.00	
484.00	1	30.00	4.10	5.20	4.65	0.20	27.90	
514.00	1	30.00	5.20	6.00	5.60	0.20	33.60	
544.00	1	30.00	6.00	7.10	6.55	0.20	39.30	
574.00	1	30.00	7.10	6.50	6.80	0.20	40.80	
604.00	1	30.00	6.50	6.50	6.50	0.20	39.00	
622.00	1	18.00	6.50	6.50	6.50	0.20	23.40	

BASAVALINGAPPA NAGARA									
5th A cross road from 7th cross road to end									
	0.00	0.00	1	0.00	5.40	5.50	5.45	0.20	0.00
	0.00	30.00	1	30.00	5.50	6.00	5.75	0.20	34.50
	30.00	60.00	1	30.00	6.00	6.00	6.00	0.20	36.00
	60.00	63.40	1	3.40	6.00	6.00	6.00	0.20	4.08
1st A cross road from 7th cross road to end									
	0.00	0.00	1	0.00	6.00	6.10	6.05	0.20	0.00
	0.00	30.00	1	30.00	6.10	6.00	6.05	0.20	36.30
	30.00	60.00	1	30.00	6.00	5.50	5.75	0.20	34.50
	60.00	65.00	1	5.00	5.50	5.30	5.40	0.20	5.40
Quantity carried summary									831.60
Shedule-B Quantity									1007.40
Quantity carried to summary									831.60

- 02 -

Assistant Executive Engineer
Bellandur Road Sub Division
KRIDL, BBMP, Bangalore

Contractor Representative

Consultant Representative

Asst Engineer
Project yelahanka
BBMP Bengalore

Asst.Executive Engineer
Project yelahanka
BBMP Bengalore
4/5/2015

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Project Division Yelahanka

Measurement Sheet

1st & Part Bill

Name of work: IImprovements to Roads and Drains at Kogilu Layout at Ward No.05

Name of Agency: M/S. KRIDL

Item No:	2								
Item Name:	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/sand/.kanker/moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (P-130, It.No. 17.1)								
SLNO	CHAINAGE / Land Mark	NO	L (m)	B1 (m)	B2 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement recorded on:			03/05/18			04/05/18			
Quantity Same as Item No-01								831.60	
Quantity carried summary								831.60	Cum
Shedule-B Quantity								1007.40	Cum
Quantity carried to summary								831.60	Cum

- 03 -

Assistant Executive Engineer
Yelahanka Sub Division
KRIDL, BBMP, Bangalore

Contractor Representative

Consultant Representative

Asst Engineer
Project yelahanka
BBMP Bengalore

Asst.Executive Engineer 4/5/2018
Project yelahanka
BBMP Bengalore

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Project Division Yelahanka

Measurement Sheet

1st & Part Bill

Name of work: IImprovements to Roads and Drains at Kogilu Layout at Ward No.05

Name of Agency: M/S. KRIDL

Item No: 3

Item Name: KSHRB M300-55. Construction of sub-grade and earthen shoulders with approved material (Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory roller)
MORTH Specification No. 305(P-148, It,-19.62)

CHAINAGE		NO	L	B1	B2	Avg B	Avg D	QTY	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
Measurement recorded on:			15/05/18, 16/05/18						
KOGILU									
Bande Road From Flag Pole to Kogilu Main road									
0.00	0.00	1	0.00	9.20	9.00	9.10	0.15	0.00	
0.00	30.00	1	30.00	9.00	7.60	8.30	0.15	37.35	
30.00	60.00	1	30.00	7.60	6.30	6.95	0.15	31.28	
60.00	90.00	1	30.00	6.30	6.10	6.20	0.15	27.90	
90.00	94.00	1	4.00	6.10	6.20	6.15	0.15	3.69	
94.00	94.00	1	0.00	6.20	6.30	6.25	0.15	0.00	
94.00	124.00	1	30.00	6.30	5.00	5.65	0.15	25.43	
124.00	154.00	1	30.00	5.00	4.80	4.90	0.15	22.05	
154.00	184.00	1	30.00	4.80	4.00	4.40	0.15	19.80	
184.00	214.00	1	30.00	4.00	4.10	4.05	0.15	18.23	
214.00	244.00	1	30.00	4.10	4.60	4.35	0.15	19.58	
244.00	274.00	1	30.00	4.60	4.00	4.30	0.15	19.35	
274.00	304.00	1	30.00	4.00	4.70	4.35	0.15	19.58	
304.00	334.00	1	30.00	4.70	4.80	4.75	0.15	21.38	
334.00	364.00	1	30.00	4.80	5.70	5.25	0.15	23.63	
364.00	394.00	1	30.00	5.70	5.40	5.55	0.15	24.98	
394.00	424.00	1	30.00	5.40	4.90	5.15	0.15	23.18	
424.00	454.00	1	30.00	4.90	4.10	4.50	0.15	20.25	
454.00	484.00	1	30.00	4.10	5.20	4.65	0.15	20.93	
484.00	514.00	1	30.00	5.20	6.00	5.60	0.15	25.20	
514.00	544.00	1	30.00	6.00	7.10	6.55	0.15	29.48	
544.00	574.00	1	30.00	7.10	6.50	6.80	0.15	30.60	
574.00	604.00	1	30.00	6.50	6.50	6.50	0.15	29.25	
604.00	622.00	1	18.00	6.50	6.50	6.50	0.15	17.55	
BASAVALINGAPPA NAGARA									
5th A cross road from 7th cross road to end									
0.00	0.00	1	0.00	5.40	5.50	5.45	0.15	0.00	
0.00	30.00	1	30.00	5.50	6.00	5.75	0.15	25.88	
30.00	60.00	1	30.00	6.00	6.00	6.00	0.15	27.00	
60.00	63.40	1	3.40	6.00	6.00	6.00	0.15	3.06	

1st A cross road from 7th cross road to end									
	0.00	0.00	1	0.00	6.00	6.10	6.05	0.15	
	0.00	30.00	1	30.00	6.10	6.00	6.05	0.15	27
	30.00	60.00	1	30.00	6.00	5.50	5.75	0.15	25
	60.00	65.00	1	5.00	5.50	5.30	5.40	0.15	4
Quantity carried summary									623.
Shedule-B Quantity									621.
Quantity carried to summary									621.

05

Contractor Representative

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Consultant Representativ

Asst Engineer
Project yelahanka
BBMP Bengalore

Asst.Executive Enginee
Project yelahanka
BBMP Bengalore

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Project Division Yelahanka

Measurement Sheet

1st & Part Bill

Name of work: IImprovements to Roads and Drains at Kogilu Layout at Ward No.05

Name of Agency: M/S. KRIDL

Item No: 4

Item Name: KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P-158, It.No. 20.18)

CHAINAGE Land Mark		NO	L (m)	B1 (m)	B2 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement recorded on:			22/05/18, 23/05/18						
KOGILU									
Bande Road From Flag Pole to Kogilu Main road									
0.00	0.00	1	0.00	9.20	9.00	9.10	0.20	0.00	
0.00	30.00	1	30.00	9.00	7.60	8.30	0.20	49.80	
30.00	60.00	1	30.00	7.60	6.30	6.95	0.20	41.70	
60.00	90.00	1	30.00	6.30	6.10	6.20	0.20	37.20	
90.00	94.00	1	4.00	6.10	6.20	6.15	0.20	4.92	
94.00	94.00	1	0.00	6.20	6.30	6.25	0.20	0.00	
94.00	124.00	1	30.00	6.30	5.00	5.65	0.20	33.90	
124.00	154.00	1	30.00	5.00	4.80	4.90	0.20	29.40	
154.00	184.00	1	30.00	4.80	4.00	4.40	0.20	26.40	
184.00	214.00	1	30.00	4.00	4.10	4.05	0.20	24.30	
214.00	244.00	1	30.00	4.10	4.60	4.35	0.20	26.10	
244.00	274.00	1	30.00	4.60	4.00	4.30	0.20	25.80	
274.00	304.00	1	30.00	4.00	4.70	4.35	0.20	26.10	
304.00	334.00	1	30.00	4.70	4.80	4.75	0.20	28.50	
334.00	364.00	1	30.00	4.80	5.70	5.25	0.20	31.50	
364.00	394.00	1	30.00	5.70	5.40	5.55	0.20	33.30	
394.00	424.00	1	30.00	5.40	4.90	5.15	0.20	30.90	
424.00	454.00	1	30.00	4.90	4.10	4.50	0.20	27.00	
454.00	484.00	1	30.00	4.10	5.20	4.65	0.20	27.90	
484.00	514.00	1	30.00	5.20	6.00	5.60	0.20	33.60	
514.00	544.00	1	30.00	6.00	7.10	6.55	0.20	39.30	
544.00	574.00	1	30.00	7.10	6.50	6.80	0.20	40.80	
574.00	604.00	1	30.00	6.50	6.50	6.50	0.20	39.00	
604.00	622.00	1	18.00	6.50	6.50	6.50	0.20	23.40	
BASAVALINGAPPA NAGARA									
5th A cross road from 7th cross road to end									
0.00	0.00	1	0.00	5.40	5.50	5.45	0.20	0.00	
0.00	30.00	1	30.00	5.50	6.00	5.75	0.20	34.50	
30.00	60.00	1	30.00	6.00	6.00	6.00	0.20	36.00	
60.00	63.40	1	3.40	6.00	6.00	6.00	0.20	4.08	

1st A cross road from 7th cross road to end									
	0.00	0.00	1	0.00	6.00	6.10	6.05		0.0
	0.00	30.00	1	30.00	6.10	6.00	6.05		181.5
	30.00	60.00	1	30.00	6.00	5.50	5.75		172.5
	60.00	65.00	1	5.00	5.50	5.30	5.40		27.0
Quantity carried summary									4158.0
Shedule-B Quantity									4140.00
Quantity carried to summary									4140.0

09

Assistant Executive Engineer
Byadarahalli Sub Division
KRIDL, BBMP, Bangalore

Contractor Representative

Consultant Representative

Asst Engineer
Project yelahanka
BBMP Bengalore

Asst.Executive Engineer
Project yelahanka
BBMP Bengalore

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Project Division Yelahanka

Measurement Sheet

1st & Part Bill

Name of work: IImprovements to Roads and Drains at Kogilu Layout at Ward No.05

Name of Agency: M/S. KRIDL

Item No: 6

KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 PAGE161 IT NO 21.6

Sqm
Sqm
Sqm

Measurement recorded on: 07/06/18, 8/06/18, 15/06/18, 16/06/18

CHAINAGE Land Mark		NO	L (m)	B1 (m)	B2 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
KOGILU									
Bande Road From Flag Pole to Kogilu Main road									
0.00	0.00	2	0.00	9.20	9.00	9.10		0.00	
0.00	30.00	2	30.00	9.00	7.60	8.30		498.00	
30.00	60.00	2	30.00	7.60	6.30	6.95		417.00	
60.00	90.00	2	30.00	6.30	6.10	6.20		372.00	
90.00	94.00	2	4.00	6.10	6.20	6.15		49.20	
94.00	94.00	2	0.00	6.20	6.30	6.25		0.00	
94.00	124.00	2	30.00	6.30	5.00	5.65		339.00	
124.00	154.00	2	30.00	5.00	4.80	4.90		294.00	
154.00	184.00	2	30.00	4.80	4.00	4.40		264.00	
184.00	214.00	2	30.00	4.00	4.10	4.05		243.00	
214.00	244.00	2	30.00	4.10	4.60	4.35		261.00	
244.00	274.00	2	30.00	4.60	4.00	4.30		258.00	
274.00	304.00	2	30.00	4.00	4.70	4.35		261.00	
304.00	334.00	2	30.00	4.70	4.80	4.75		285.00	
334.00	364.00	2	30.00	4.80	5.70	5.25		315.00	
364.00	394.00	2	30.00	5.70	5.40	5.55		333.00	
394.00	424.00	2	30.00	5.40	4.90	5.15		309.00	
424.00	454.00	2	30.00	4.90	4.10	4.50		270.00	
454.00	484.00	2	30.00	4.10	5.20	4.65		279.00	
484.00	514.00	2	30.00	5.20	6.00	5.60		336.00	
514.00	544.00	2	30.00	6.00	7.10	6.55		393.00	
544.00	574.00	2	30.00	7.10	6.50	6.80		408.00	
574.00	604.00	2	30.00	6.50	6.50	6.50		390.00	
604.00	622.00	2	18.00	6.50	6.50	6.50		234.00	
BASAVALINGAPPA NAGARA									
5th A cross road from 7th cross road to end									
0.00	0.00	1	0.00	5.40	5.50	5.45		0.00	
0.00	30.00	1	30.00	5.50	6.00	5.75		172.50	
30.00	60.00	1	30.00	6.00	6.00	6.00		180.00	
60.00	63.40	1	3.40	6.00	6.00	6.00		20.40	

1st A cross road from 7th cross road to end									
	0.00	0.00	1	0.00	6.00	6.10	6.05		0.
	0.00	30.00	1	30.00	6.10	6.00	6.05		181.
	30.00	60.00	1	30.00	6.00	5.50	5.75		172.
	60.00	65.00	1	5.00	5.50	5.30	5.40		27.
Quantity carried summary									7562.
Shedule-B Quantity									8280.0
Quantity carried to summary									7562.

Assistant Executive Engineer
Byadarayanapura Sub Division
KRIDL, BBMP, Bangalore

Contractor Representative

Asst Engineer
Project yelahanka
BBMP Bengalore

Consultant Representative

Asst.Executive Engineer
Project yelahanka
BBMP Bengalore

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Project Division Yelahanka

Measurement Sheet

1st & Part Bill

Name of work: IImprovements to Roads and Drains at Kogilu Layout at Ward No.05

Name of Agency: M/S. KRIDL

Item No: 7

Item Name: KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 /75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH Chapter 5PAGE162 IT NO 21.11.2

CHAINAGE Land Mark		NO	L (m)	B1 (m)	B2 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement recorded on:			07/06/18		08/06/18				
KOGILU									
Bande Road From Flag Pole to Kogilu Main road									
0.00	0.00	1	0.00	9.20	9.00	9.10	0.05	0.00	
0.00	30.00	1	30.00	9.00	7.60	8.30	0.05	12.45	✓
30.00	60.00	1	30.00	7.60	6.30	6.95	0.05	10.43	✓
60.00	90.00	1	30.00	6.30	6.10	6.20	0.05	9.30	✓
90.00	94.00	1	4.00	6.10	6.20	6.15	0.05	1.23	✓
94.00	94.00	1	0.00	6.20	6.30	6.25	0.05	0.00	
94.00	124.00	1	30.00	6.30	5.00	5.65	0.05	8.48	✓
124.00	154.00	1	30.00	5.00	4.80	4.90	0.05	7.35	✓
154.00	184.00	1	30.00	4.80	4.00	4.40	0.05	6.60	✓
184.00	214.00	1	30.00	4.00	4.10	4.05	0.05	6.08	✓
214.00	244.00	1	30.00	4.10	4.60	4.35	0.05	6.53	✓
244.00	274.00	1	30.00	4.60	4.00	4.30	0.05	6.45	✓
274.00	304.00	1	30.00	4.00	4.70	4.35	0.05	6.53	✓
304.00	334.00	1	30.00	4.70	4.80	4.75	0.05	7.13	✓
334.00	364.00	1	30.00	4.80	5.70	5.25	0.05	7.88	✓
364.00	394.00	1	30.00	5.70	5.40	5.55	0.05	8.33	✓
394.00	424.00	1	30.00	5.40	4.90	5.15	0.05	7.73	✓
424.00	454.00	1	30.00	4.90	4.10	4.50	0.05	6.75	✓
454.00	484.00	1	30.00	4.10	5.20	4.65	0.05	6.98	✓
484.00	514.00	1	30.00	5.20	6.00	5.60	0.05	8.40	✓
514.00	544.00	1	30.00	6.00	7.10	6.55	0.05	9.83	✓

	544.00	574.00	1	30.00	7.10	6.50	6.80	0.05	10.20
	574.00	604.00	1	30.00	6.50	6.50	6.50	0.05	9.75
	604.00	622.00	1	18.00	6.50	6.50	6.50	0.05	5.85
Quantity carried summary									170.21
Shedule-B Quantity									207.00
Quantity carried to summary									170.21

13

Assistant Executive Engineer
Contractor Representative
KRIDL, BBMP, Bangalore

Consultant Representative

Asst Engineer
Project yelahanka
BBMP Bengalore

Asst.Executive Engineer
Project yelahanka
BBMP Bengalore